

## Squares and Square Roots

6

- ⌚ We say that any number raised to the power of 2 is "squared." The perfect squares are squares of whole numbers. Here are the first three perfect squares.

$$1^2 = 1 \times 1 = 1$$

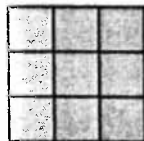


$$2^2 = 2 \times 2 = 4$$



Any perfect square  
can be explained  
using a square!

$$3^2 = 3 \times 3 = 9$$



The square root of a number,  $n$ , is a number that when multiplied by itself, equals  $n$ . Here are the square roots of the perfect squares above.

$$1^2 = 1 \quad \sqrt{1} = 1$$

$$2^2 = 4 \quad \sqrt{4} = 2$$

$$3^2 = 9 \quad \sqrt{9} = 3$$

Solve.

1)  $9^2 =$  \_\_\_\_\_  $7^2 =$  \_\_\_\_\_  $10^2 =$  \_\_\_\_\_  $3^2 =$  \_\_\_\_\_

2)  $\sqrt{25} =$  \_\_\_\_\_  $\sqrt{36} =$  \_\_\_\_\_  $\sqrt{100} =$  \_\_\_\_\_  $\sqrt{64} =$  \_\_\_\_\_

3)  $12^2 =$  \_\_\_\_\_  $8^2 =$  \_\_\_\_\_  $15^2 =$  \_\_\_\_\_  $20^2 =$  \_\_\_\_\_

4)  $\sqrt{49} =$  \_\_\_\_\_  $\sqrt{400} =$  \_\_\_\_\_  $\sqrt{225} =$  \_\_\_\_\_  $\sqrt{196} =$  \_\_\_\_\_

5)  $\sqrt{625} =$  \_\_\_\_\_  $32^2 =$  \_\_\_\_\_  $\sqrt{2500} =$  \_\_\_\_\_  $125^2 =$  \_\_\_\_\_